



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re PATENT APPLICATION of
Inventor(s): Mills

Group Art Unit: 1745

Appln. No.: 09/501,621

Examiner: Langel

Filing Date: 02/02/2000

Att. Docket No.: 62-226-8AC4-D1

Title: DOPED THERMIONIC CATHODE AND METHOD OF MAKING THE DOPED
THERMIONIC CATHODE

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July 13, 2001

SUPPLEMENTAL AMENDMENT

Hon. Asst. Commissioner
of Patents and Trademarks
Washington, D.C. 20231

RECEIVED
JUL 17 2001
TC 1700

Sir:

Please amend the subject application as follows:

IN THE CLAIMS:

Please amend claims 65, 66, 148, 149 and 150 as follows:

65. A doped thermionic cathode according to claim 64, wherein said doubly negatively charged anion is selected from the group consisting of carbonate ions and sulfate ions.

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66. A doped thermionic cathode according to claim 64, wherein said singly negatively charged anion is selected from the group consisting of halogen ions, hydroxide ions, hydrogen carbonate ions, and nitrate ions.

148. A method according to claim 147, wherein said increased binding energy hydrogen species is selected from the group consisting of H_n , H_n^- , and H_n^+ , where n is an integer of 1 to 8, and n is greater than 1 when H has a positive charge.

B2